

## ACADEMIC LESSON PLAN 2023 (WINTER)

Discipline: Information Technology	Semester: 5th	Name of the Teaching faculty: Swetalina Das
Subject: Computer Graphics and Multimedia Lab	No. of Days/per week class allotted :02 days/ 04 classes	Semester from date : 01/08/2023 to 30/11/2023 No. of weeks : 17
Week	Class Day	Theory / Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	Program to implement a line using slope intercept formula
2 <sup>nd</sup>	1 <sup>st</sup>	Write a Program to implement line using DDA algorithm.
	2 <sup>nd</sup>	Write a Program to implement line using Bresenham's algorithm.
3 <sup>rd</sup>	1 <sup>st</sup>	Write a Program to implement circle using mid-point algorithm.
	2 <sup>nd</sup>	Write a Program to implement translation of a line and triangle.
4 <sup>th</sup>	1 <sup>st</sup>	Write a Program to implement rotation of a line and triangle.
	2 <sup>nd</sup>	Write a Program to implement scaling transformation.
5 <sup>th</sup>	1 <sup>st</sup>	Write a program using function & Fill the Circle with Red color.
	2 <sup>nd</sup>	The concept of Photoshop.
6 <sup>th</sup>	1 <sup>st</sup>	How to open a document and save the document.
	2 <sup>nd</sup>	How to create a new document with the needed resolution.
7 <sup>th</sup>	1 <sup>st</sup>	How to select an area, copy and paste the selection.
	2 <sup>nd</sup>	How to save images for the web and their formats.
8 <sup>th</sup>	1 <sup>st</sup>	The use of layers and the history palette. How to print our document.
	2 <sup>nd</sup>	How to use the text editor. How to Crop Image in Photoshop & Sharpen Image?
9 <sup>th</sup>	1 <sup>st</sup>	Procedure to Removing & Adding Backgrounds images. Procedure to Convert Color Photos to Black & White.
	2 <sup>nd</sup>	How to Create a passport size images? How to Change Eye Color & Hair Color?
10 <sup>th</sup>	1 <sup>st</sup>	How to Add Rain in Photoshop? How to make a GIFs File?
	2 <sup>nd</sup>	Concept of Flash.
11 <sup>th</sup>	1 <sup>st</sup>	Procedure to create an animation to represent the growing moon.
	2 <sup>nd</sup>	Procedure to create an animation to indicate a ball bouncing on steps
12 <sup>th</sup>	1 <sup>st</sup>	Procedure to simulate movement of a cloud. Procedure to draw the fan blades and to give proper animation. Procedure to display the background given (filename: tulip.jpg) through your name.

	2 <sup>nd</sup>	Procedure to create an animation with the following features
13 <sup>th</sup>	1 <sup>st</sup>	Procedure to design a visiting card containing at least one graphic and text information.
	2 <sup>nd</sup>	Procedure to prepare a cover page for the book in your subject area. Plan your own design.
14 <sup>th</sup>	1 <sup>st</sup>	Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look.
	2 <sup>nd</sup>	Procedure to position the picture preferably on a plain background of a colour of your choice - positioning includes rotation and scaling.
15 <sup>th</sup>	1 <sup>st</sup>	Procedure to type a word and apply the effects shadow embosses.
	2 <sup>nd</sup>	Practice of line, circle and triangle drawing programs
16 <sup>th</sup>	1 <sup>st</sup>	Practice of experiments in Photoshop
	2 <sup>nd</sup>	Practice of experiments in Flash
17 <sup>th</sup>	1 <sup>st</sup>	Practice of experiments
	2 <sup>nd</sup>	Quiz

Signature of Faculty